

RAW SEQUENCE LISTING

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Application Serial Number: 10/723,083
Source: 1,FWO
Date Processed by STIC: 11/15/04

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RAW SEQUENCE LISTING

DATE: 11/15/2004

PATENT APPLICATION: US/10/723,083

TIME: 14:41:04

Input Set : A:\0109144.00143.rtf

Output Set: N:\CRF4\11152004\J723083.raw

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3 <110> APPLICANT: Altosaar, Illimar
4   Sardana, Ravinder
5   Dudani, Aail
6   Ganz, Peter
7   Tackaberry, Eilleen
9 <120> TITLE OF INVENTION: Production of GM-CSF in Plants
11 <130> FILE REFERENCE: 08-898901US
C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/723,083
14 <141> CURRENT FILING DATE: 2003-11-26
16 <150> PRIOR APPLICATION NUMBER: Canada 2,410,702
17 <151> PRIOR FILING DATE: 2002-11-26
19 <160> NUMBER OF SEQ ID NOS: 4
21 <170> SOFTWARE: PatentIn version 3.1
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 458
25 <212> TYPE: DNA
26 <213> ORGANISM: Homo sapiens
28 <220> FEATURE:
29 <221> NAME/KEY: CDS
30 <222> LOCATION: (10)..(438)
31 <223> OTHER INFORMATION:
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35           Met His His His His His Ser Ser Ser Gly Ile Glu Gly Arg
36           1             5             10
38 atg gcg cca gcg cgc agc ccg agc ccg tcc acc cag ccg tgg gag cac      99
39 Met Ala Pro Ala Arg Ser Pro Ser Pro Ser Thr Gln Pro Trp Glu His
40 15             20             25             30
42 gtg aac gcg atc cag gag gcc cgc agg ctc ctc aac ctc tcc cgc gac      147
43 Val Asn Ala Ile Gln Glu Ala Arg Arg Leu Leu Asn Leu Ser Arg Asp
44           35             40             45
46 acc gcc gcc gag atg aac gag acc gtg gag gtg atc tcc gag atg ttc      195
47 Thr Ala Ala Glu Met Asn Glu Thr Val Glu Val Ile Ser Glu Met Phe
48           50             55             60
50 gat ctc cag gag ccg acc tgc ctc cag acc cgc ctc gag ctg tac aag      243
51 Asp Leu Gln Glu Pro Thr Cys Leu Gln Thr Arg Leu Glu Leu Tyr Lys
52           65             70             75
54 cag ggc ctc cgc ggc agc ctc acc aag ctc aag ggc ccg ctc acc atg      291
55 Gln Gly Leu Arg Gly Ser Leu Thr Lys Leu Lys Gly Pro Leu Thr Met
56           80             85             90
57 atg gcg tcc cac tac aag cag cac tgc cca ccg acc ccg gag acc tcc      339
58 Met Ala Ser His Tyr Lys Gln His Cys Pro Pro Thr Pro Glu Thr Ser
59 95             100             105             110

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61 tgc gcc acc cag atc atc acc ttc gag agc ttc aag gag aac ctc aag      387
62 Cys Ala Thr Gln Ile Ile Thr Phe Glu Ser Phe Lys Glu Asn Leu Lys
63          115          120          125
65 gac ttc ctc ctc gtg atc ccg ttc gac tgc tgg gag ccg gtg cag gag      435
66 Asp Phe Leu Leu Val Ile Pro Phe Asp Cys Trp Glu Pro Val Gln Glu
67          130          135          140
69 tga gctagcgtcg acgcatgccg      458
72 <210> SEQ ID NO: 2
73 <211> LENGTH: 142
74 <212> TYPE: PRT
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83 Pro Ala Arg Ser Pro Ser Pro Ser Thr Gln Pro Trp Glu His Val Asn
84          20          25          30
87 Ala Ile Gln Glu Ala Arg Arg Leu Leu Asn Leu Ser Arg Asp Thr Ala
88          35          40          45
91 Ala Glu Met Asn Glu Thr Val Glu Val Ile Ser Glu Met Phe Asp Leu
92          50          55          60
95 Gln Glu Pro Thr Cys Leu Gln Thr Arg Leu Glu Leu Tyr Lys Gln Gly
96 65          70          75          80
99 Leu Arg Gly Ser Leu Thr Lys Leu Lys Gly Pro Leu Thr Met Met Ala
100          85          90          95
103 Ser His Tyr Lys Gln His Cys Pro Pro Thr Pro Glu Thr Ser Cys Ala
104          100          105          110
107 Thr Gln Ile Ile Thr Phe Glu Ser Phe Lys Glu Asn Leu Lys Asp Phe
108          115          120          125
111 Leu Leu Val Ile Pro Phe Asp Cys Trp Glu Pro Val Gln Glu
112          130          135          140
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115 <211> LENGTH: 429
116 <212> TYPE: DNA
117 <213> ORGANISM: Homo sapiens
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120 <221> NAME/KEY: CDS
121 <222> LOCATION: (1)..(429)
122 <223> OTHER INFORMATION:
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127 1          5          10          15
129 ccc gcc cgg tca ccc agc ccc agc acg cag ccc tgg gag cat gtg aat      96
130 Pro Ala Arg Ser Pro Ser Pro Ser Thr Gln Pro Trp Glu His Val Asn
131          20          25          30
133 gcc atc cag gag gcc cgg cgt ctc ctg aac ctg agt aga gac act gct      144
134 Ala Ile Gln Glu Ala Arg Arg Leu Leu Asn Leu Ser Arg Asp Thr Ala
135          35          40          45
137 gct gag atg aat gaa aca gta gaa gtg ata tca gaa atg ttt gac ctc      192

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138 Ala Glu Met Asn Glu Thr Val Glu Val Ile Ser Glu Met Phe Asp Leu
139      50                      55                      60
141 cag gag ccg act tgc cta cag acc cgc ctg gag ctg tac aag cag ggc      240
142 Gln Glu Pro Thr Cys Leu Gln Thr Arg Leu Glu Leu Tyr Lys Gln Gly
143 65                      70                      75                      80
145 ctg cgg ggc agc ctc acc aag ctc aag ggc ccc ttg acc atg atg gcc      288
146 Leu Arg Gly Ser Leu Thr Lys Leu Lys Gly Pro Leu Thr Met Met Ala
147      85                      90                      95
149 agc cac tac aag cag cac tgc cct cca acc ccg gaa act tcc tgt gca      336
150 Ser His Tyr Lys Gln His Cys Pro Pro Thr Pro Glu Thr Ser Cys Ala
151      100                      105                      110
153 acc cag att atc acc ttt gaa agt ttc aaa gag aac ctg aag gac ttc      384
154 Thr Gln Ile Ile Thr Phe Glu Ser Phe Lys Glu Asn Leu Lys Asp Phe
155      115                      120                      125
157 ctg ctt gtc atc ccc ttt gac tgc tgg gag cca gtc cag gag tga      429
158 Leu Leu Val Ile Pro Phe Asp Cys Trp Glu Pro Val Gln Glu
159      130                      135                      140
162 <210> SEQ ID NO: 4
163 <211> LENGTH: 142
164 <212> TYPE: PRT
165 <213> ORGANISM: Homo sapiens
167 <400> SEQUENCE: 4
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173 Pro Ala Arg Ser Pro Ser Pro Ser Thr Gln Pro Trp Glu His Val Asn
174      20                      25                      30
177 Ala Ile Gln Glu Ala Arg Arg Leu Leu Asn Leu Ser Arg Asp Thr Ala
178      35                      40                      45
181 Ala Glu Met Asn Glu Thr Val Glu Val Ile Ser Glu Met Phe Asp Leu
182      50                      55                      60
185 Gln Glu Pro Thr Cys Leu Gln Thr Arg Leu Glu Leu Tyr Lys Gln Gly
186 65      70                      75                      80
189 Leu Arg Gly Ser Leu Thr Lys Leu Lys Gly Pro Leu Thr Met Met Ala
190      85                      90                      95
193 Ser His Tyr Lys Gln His Cys Pro Pro Thr Pro Glu Thr Ser Cys Ala
194      100                      105                      110
197 Thr Gln Ile Ile Thr Phe Glu Ser Phe Lys Glu Asn Leu Lys Asp Phe
198      115                      120                      125
201 Leu Leu Val Ile Pro Phe Asp Cys Trp Glu Pro Val Gln Glu
202      130                      135                      140

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VERIFICATION SUMMARY

DATE: 11/15/2004

PATENT APPLICATION: US/10/723,083

TIME: 14:41:05

Input Set : A:\0109144.00143.rtf

Output Set: N:\CRF4\11152004\J723083.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application Number

L:33 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:1,Line#:31

L:124 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:3,Line#:122